



# Emulation Systems

## ES4000

*Twin Engine Turboprop Simulator*



# Compare the feature/performance/price ratio of our Twin engine turboprop simulators with any competitor's and you will find that the only choice is Emulation Systems

The ES4000 is normally configured to emulate the important characteristics of a Beechcraft 1900 twin-engine turboprop. The ES4000 comes equipped with flight controls for both the pilot and copilot.

## ES4000 Standard Equipment

- Twin Engine Turboprop
- Pratt & Whitney PTS Engines
- Fuselage molded from an actual Beechcraft
- All important circuit breakers/switches operable
- Engine sound - 2 channels
- Cockpit sounds
- Radio sound simulation (Nav. Ident)
- HSI
- RMI
- Visual System (Pilot, Copilot forward looking views)
- Actual Aircraft Controls
- Actual Aircraft Seats
- Beechcraft 1900 Simulated
- Integrated Instructor's Station
- Menus for Engines, Aerodynamics, Navigation, Weather, Electrical System, Pneumatics, Hydraulics, and other utilities
- Plotter
- Dual Controls
- Copilot Instrumentation
- Will meet requirements for certification to FAA Level 5 as defined in AC120.45A

## Options

- 6 Axis Motion Platform
- Weather Radar
- TCAS
- GPWS
- GPS
- EFIS
- Flight Director
- Auto Pilot

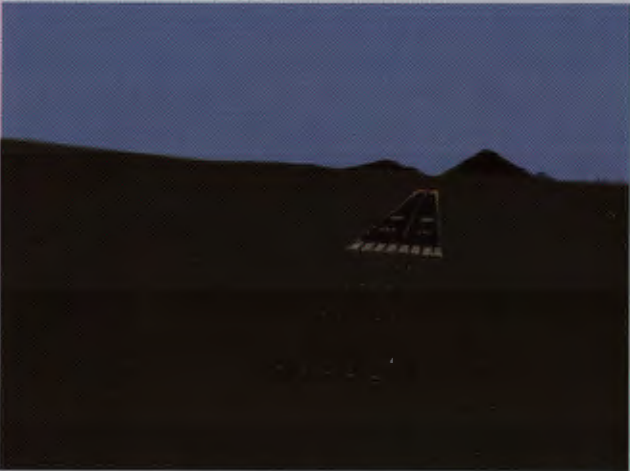
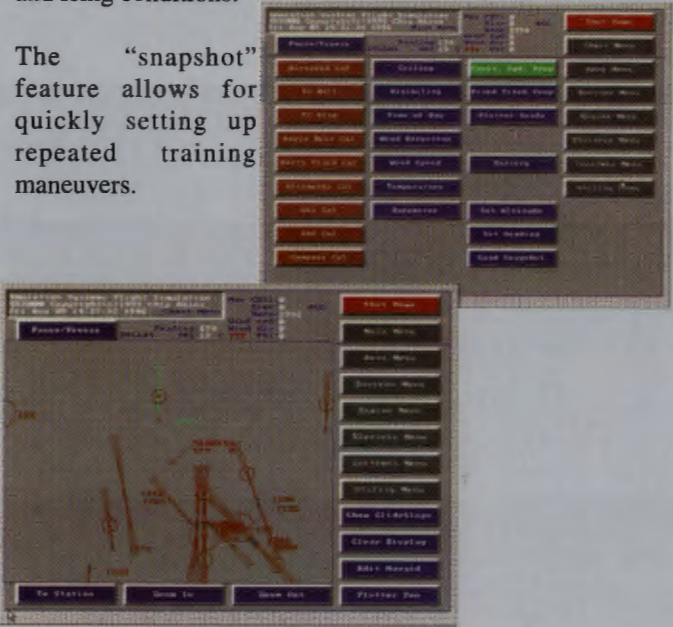
## Fuselage

The ES4000 fuselage is made with fiberglass composite and molded from an actual Beechcraft fuselage. Great care is taken to ensure that the simulation of custom and standard aircraft assemblies is complete and accurate. The standard finish is super-white, high-gloss. Custom decals are available as an option.

## Instructor's Station

Using color VGA graphics, the ES4000 keeps the instructor informed with an on-screen, real-time, Moving Map Display which corresponds to real charts and frequencies. Clearly marked buttons make finding and using the advanced features of this simulator straightforward and easy. With the use of a friendly mouse-driven interface, the instructor can make important adjustments such as ceiling, visibility, time of day, and icing conditions.

The "snapshot" feature allows for quickly setting up repeated training maneuvers.



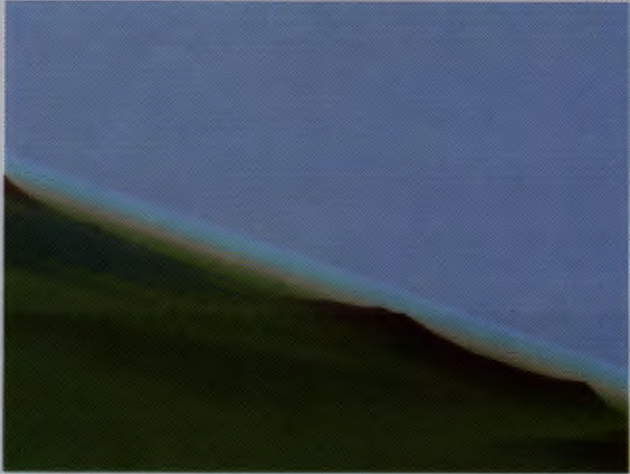
**Video Display ESV4**  
24" Spherical Mirror collimated Optics System with an advanced Graphics Generator

**Video Display ESV5**  
Our best visual system includes a 48" Spherical Mirror Collimated Optics System and an advanced Graphics Generator.

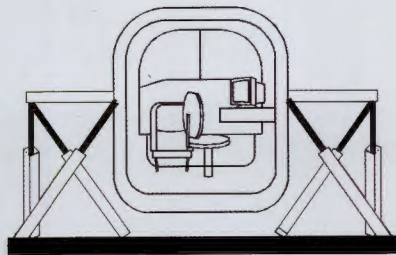
**VIDEO DISPLAY SYSTEMS**  
The ES4000 comes standard with an ESV4. visual display system. All visual display systems include a second dedicated computer networked to the simulator.

Important adjustments such as ceiling, visibility, and time of day, are all controlled from the Instructor Station. The dedicated visual display computer assures a flicker-free 3D graphics rendering with a virtually undetectable maximum latency time of only 54 milliseconds.

Advanced optics are an important consideration for any simulator visual system so that it can provide the feeling of depth and spatial dimension of an infinity focus. The very best of these systems uses a spherical mirror, providing for a wide field of view, more realism, and less eye fatigue.

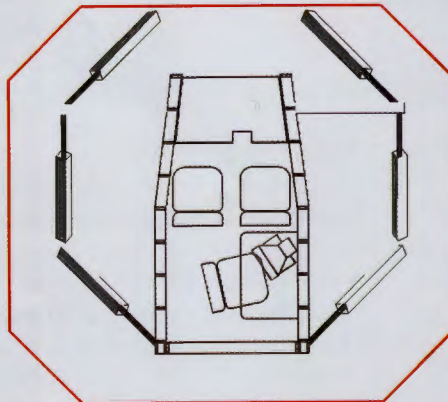
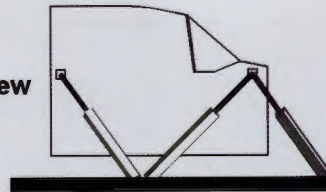


## Emulation Systems Optional 6 Axis Motion System



Rear View

Side View



Top View

### Specifications:

6 Axis Motion System: Pitch, Roll, Yaw,  
Vertical, Longitudinal, Latitudinal  
Power Requirements: 115VAC / 50-60HZ / 20 Amps  
Space Requirements: 8'H x12'L x13.5'W

### Other Simulators We Offer

Single Engine  
Twin Piston  
Piston Rotor  
Turbine Rotor

**For more information call 1(800) 865-1800**

**or (805) 349-1024**

**Fax: (805) 349-0824**

**E-Mail: [emsys@ix.netcom.com](mailto:emsys@ix.netcom.com)**